

# AV-3420CE / AVC-3420CE

CCIR Standard High Resolution Series



*High resolution of more than 300 lines*

*Portable, AC/DC operation*

*Recording/Playback videocorder*

*Video camera with built-in viewfinder and Electret Condenser Microphone*

**Features** ■ **High resolution of more than 300 lines** with use of newly developed High Density Video Tape and precisely designed heads, more than 300 lines of horizontal resolution is assured. So pictures are stable and clear with vivid contrast — a sharply focused, virtually grain-free picture. ■ **Compact and lightweight record/playback system** It can be operated in any position and carried on operator's back or shoulder. ■ **AC/DC operation** The self-contained rechargeable battery pack BP-20 provides approx. 30 minutes of continuous operation. Or car battery with optional car battery cord DCC-2400CE. Or AC household current with supplied AC adaptor AC-3420CE. ■ **Immediate playback facility** The recorded material can be immediately played back and seen through the camera viewfinder screen. ■ **RF unit (optional)** enables AV-3420CE to play back on



ordinary TV sets. ■ **Automatic Gain Control** for video and audio adjusts recording levels automatically. ■ **Complete tape interchangeability** with all Sony AV-CE series VTR's ■ **All-in-one compact video camera** incorporating electronic viewfinder, zoom lens and high performance omnidirectional Electret Condenser Microphone ■ **Other facilities** \* Audio dubbing \* Still picture for close examination \* Time counter shows the recording time minute by minute, indicating the amount of tape. \* Automatic tape-end shut-off mechanism \* Manual tracking control

Research makes the difference

**SONY®**

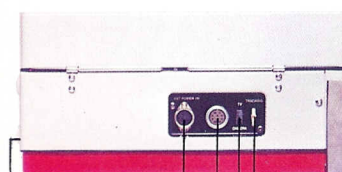


# AV-3420CE

## PORTABLE VIDEO TAPE RECORDER

The AV-3420CE/AVC-3420CE is a complete portable, battery-operated VTR system that can be carried and operated by one person. It offers high resolution picture quality created from the techniques and experiences accumulated over many years. It consists of a handheld video camera (with zoom lens and built-in Electret Condenser Microphone) connected to a shoulder- or back-carried videocorder. The videocorder records picture and sound and to play them back on a monitor or, with the optional RF unit on an ordinary TV set.

The videocorder can likewise be used to record TV programs off the air. The camera has a zoom lens and an electronic viewfinder that shows the operator recording picture exactly as it will appear on the TV screen. This viewfinder, moreover, can be used for playback to check the tape as soon as it has been recorded. An AC power adaptor, which also serves to charge the battery, makes it possible to run the AV-3420CE/AVC-3420CE on AC household current. Other features include still picture and audio dubbing. Improved performance of newly developed High Density Video Tape and high performance heads assures horizontal resolu-



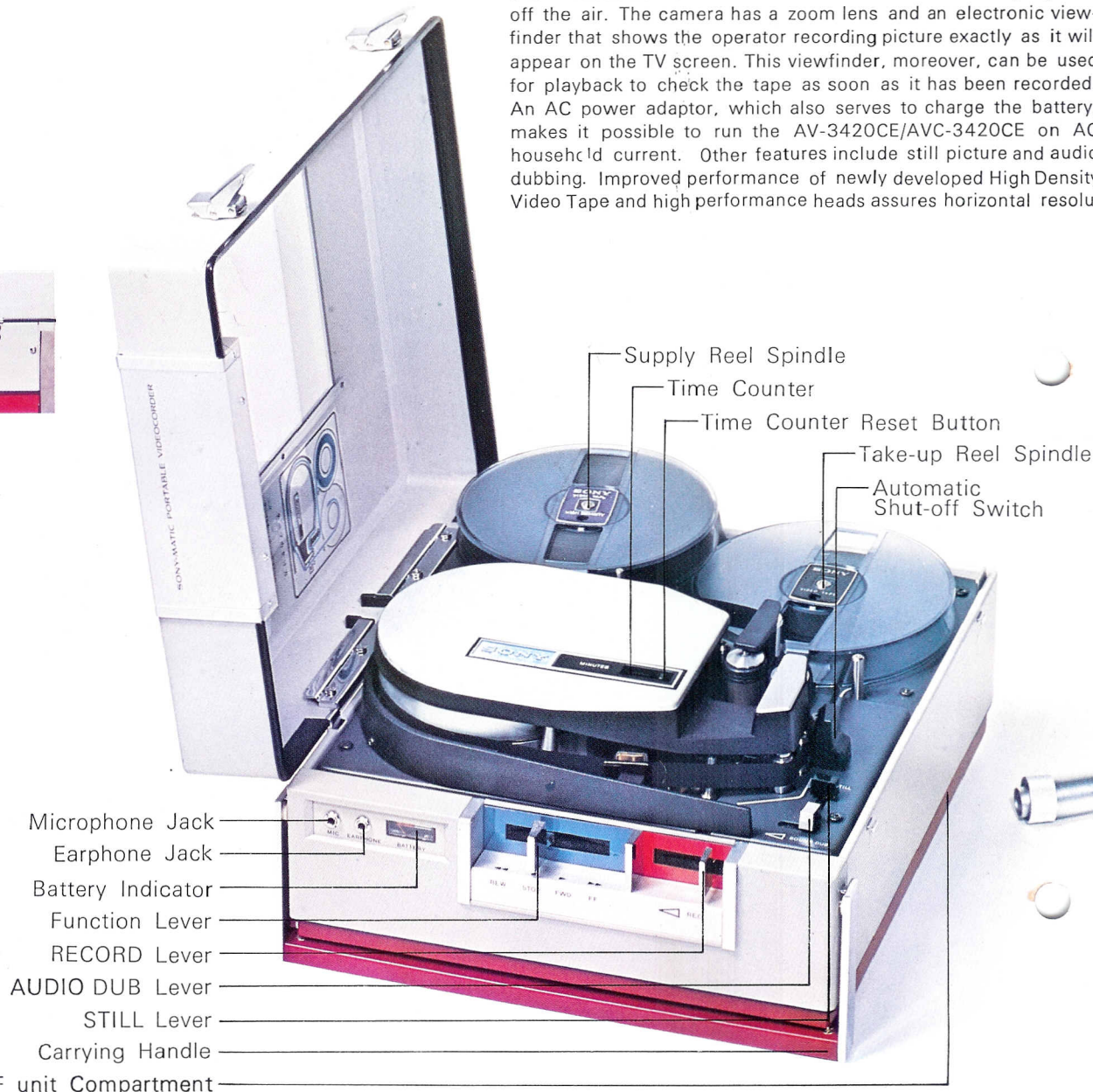
EXT POWER  
IN Connector

TV/CAMERA  
Connector

CAMERA/TV  
Switch

TRACKING  
Control

RF Output



Microphone Jack

Earphone Jack

Battery Indicator

Function Lever

RECORD Lever

AUDIO DUB Lever

STILL Lever

Carrying Handle

Battery & RF unit Compartment

### Portable Videocorder AV-3420CE Specifications

Video recording system :	Rotary two head helical scan, FM recording
Power requirements :	DC 12V $\pm$ 1.2V
	AC 220V or 240V, 50Hz with supplied AC adaptor
	AC-3420CE (changeable to 110 or 127V)
Power consumption :	12.6W (without camera)
Video signals :	British TV standards (405 lines)
	CCIR and OIRT TV standards (625 lines)
	French TV standards (819 lines), 50 fields
Input :	0.5Vp-p - 2Vp-p, 75 ohms unbalanced
Output :	1.0Vp-p, 75 ohms unbalanced
Horizontal resolution :	more than 300 lines (CCIR standard)
Video bandwidth :	$\geq$ 3.8MHz, -20dB
Signal-to-noise ratio :	better than 40dB
Audio signals :	input: Microphone -65dB, 3.6k ohms unbalanced
	output: -4dB
	Earphone, high impedance
Frequency response :	100Hz - 10,000Hz

Audio signal-to-noise ratio :	better than 40dB
Tape speed :	163.22mm/sec
Recording time :	more than 30 minutes with V-60H
Operating temperature :	0° - 40°C (32° - 105°F)
Reel size :	5" (13cm) in maximum diameter
Dimensions :	280(W)×157(H)×295mm(D) (11×6 $\frac{3}{8}$ ×11 $\frac{5}{8}$ ")
Weight :	8.5 kg (18 lb 12 oz) with BP-20, V-60H and reel
Supplied accessories :	AC adaptor AC-3420CE
	Battery pack BP-20
	High Density Video Tape V-60D
	Empty reel RH-5E
	Earphone CE-3
	Monitor connecting cable VMC-1M (10p-8p, 1.5m)
	Splicing tape
	Cleaning kit
	Shoulder bag

(Design and specifications subject to change without notice.)

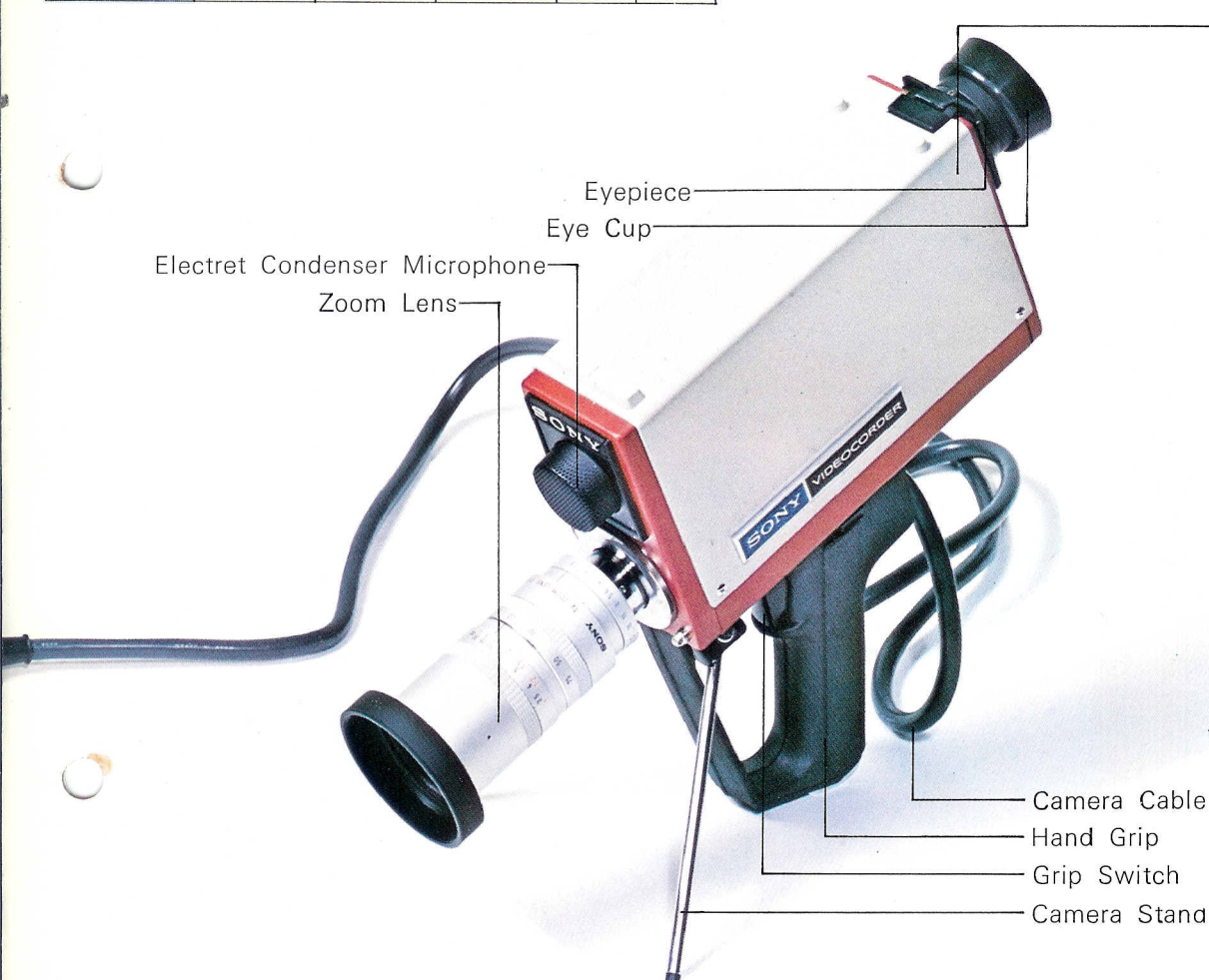


tion in excess of 300 lines. Pictures are sharp and clear with vivid contrast — a sharply focused, virtually grain-free picture. Tapes are interchangeable with those of any Sony AV-CE series VTR.

High Density Video Tape					
Model	V-62	V-61	V-60H	V-60E	V-60D
Reel size (inch)	7	7	5	7	5
Length (m)	610	310	310	216	216
Playing time (min.)	60	30	30	20	20

# AVC-3420CE

PORTABLE VIDEO CAMERA



Viewfinder

Eyepiece

Eye Cup

Electret Condenser Microphone

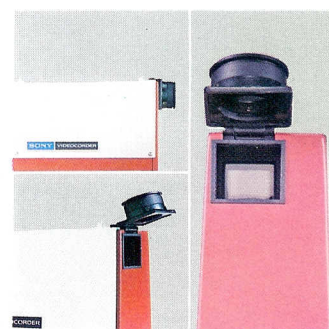
Zoom Lens

Camera Cable

Hand Grip

Grip Switch

Camera Stand



## Direct Display of the Playback Picture

When the videocorder is operated in the playback mode, the playback picture can be immediately seen on the built-in camera viewfinder screen.

In this case, it is convenient to raise the eyepiece for easy viewing. Pull out two feet on the sides of the grip to provide a stable base.

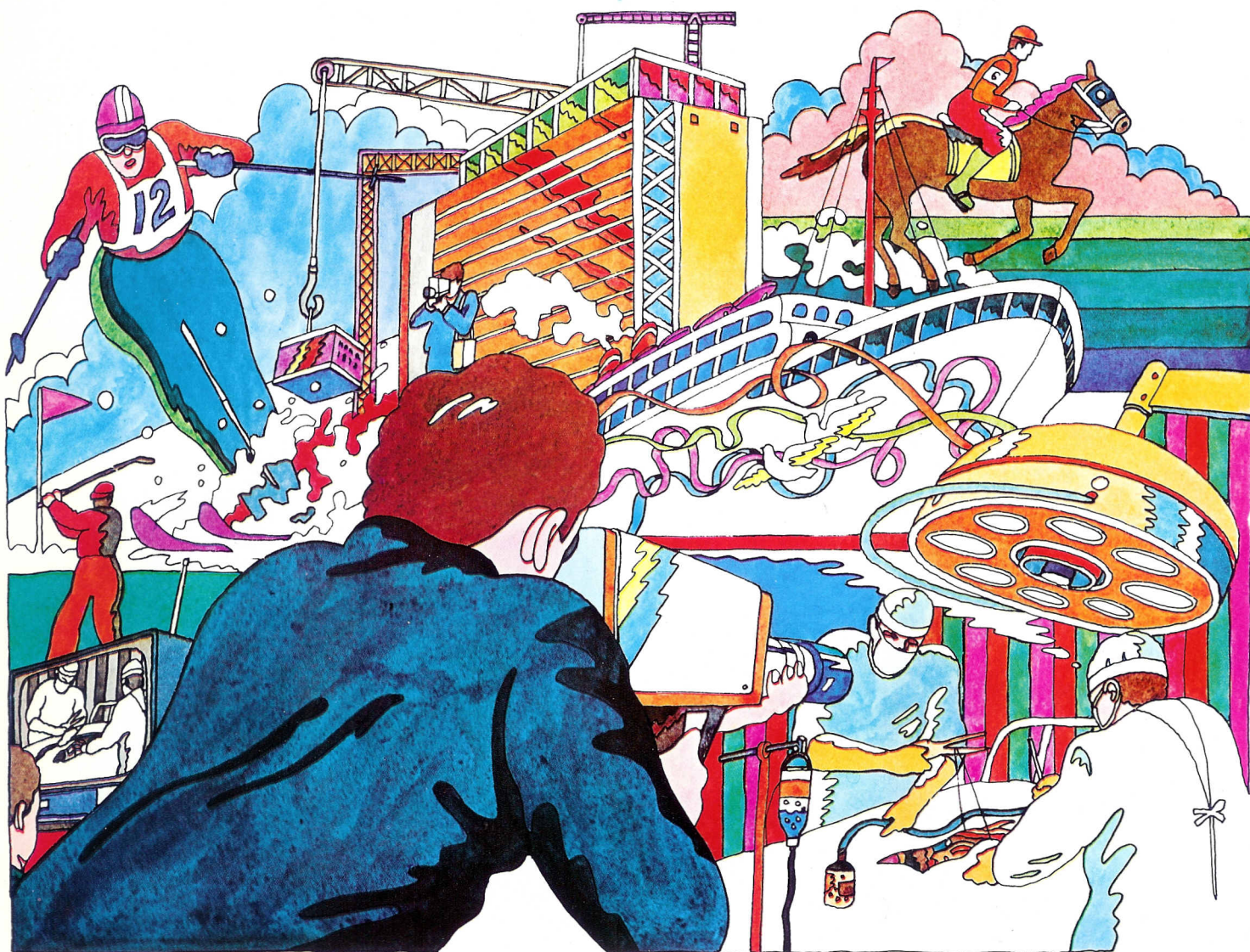
## Video camera AVC-3420CE Specifications

Vidicon:	2/3 inch separate mesh vidicon	Power consumption:	8W
Scanning system:	2:1 interlaced scanning, 625 lines, with VTR sync supplied from AV-3420CE CCIR standard	Ambient temperature:	0° - 40°C (32° - 105°F)
Frame numbers:	25 frames per second	Lens mount:	C mount
Sync system:	External—synchronized with AV-3420CE accepts horizontal and vertical drive	Viewfinder:	Built-in 1.2 inch
Signal output:	1Vp-p, sync negative, 75 ohms unbalanced	Microphone:	Built-in Electret Condenser Microphone Omni-directional characteristics
Horizontal frequency:	15.625kHz	Output connector:	10 pin connector
Vertical frequency:	50Hz	Dimensions:	76(W)×127(H)×383mm(D)(3×10 $\frac{1}{4}$ ×15 $\frac{1}{2}$ " with zoom lens)
Horizontal resolution:	more than 400 lines	Weight:	2.8 kg (6 lb 2 oz) with zoom lens
Signal-to-noise ratio:	better than 40dB	Supplied accessories:	Zoom lens VCL-1206 Camera grip Shoulder strap
Minimum light level:	200 lux (20 footcandles)	Optional accessories:	Camera stand VCT-1 (monopod) VCT-20A (tripod)
Automatic sensitivity control:	300 - 100,000 lux (30 - 10,000 footcandles)		Camera cable CCJ-1 (1.6m), CCJ-5 (5m), CCJ-10 (10m)
Components:	39 transistors, 24 diodes		
Power requirements:	DC 12V supplied by AV-3420CE		

(Design and specifications subject to change without notice.)



## VERSATILE AND WIDE APPLICATIONS



### Recommended video equipment

CVM-110UET



CVM-112UM

### AV-3420CE Supplied accessories

AC adaptor AC-3420CE  
Battery pack BP-20  
Earphone CE-3  
Splicing tape  
Cleaning kit

Monitor  
connecting cable  
VMC-1M



Shoulder bag



Empty reel  
RH-5E



High Density  
Video Tape V-60D

### AVC-3420CE Supplied accessories

Shoulder strap  
Rubber spacer



Camera grip



Zoom lens VCL-1206

### AVC-3420CE Optional accessories

Camera stand VCT-1 (monopod)  
VCT-20A (tripod)  
Camera cable CCJ-1, CCJ-5, CCJ-10

Use only "V-60 series" High Density Video Tape for high resolution AV-CE series VTRs.